

August 4, 2000 Project No. 97664V3

Ms. Brenda Pohlmann Nevada Division of Environmental Protection 555 E. Washington, Suite 4300 Las Vegas, NV 89101-1049

RE: Results of monthly surface water sampling of the Las Vegas Wash at the Northshore Road bridge.

PROVIDING

- Geotechnical Engineering
- Construction Materials Testing
- Environmental Site Assessments
- Drilling
 Services

Dear Ms. Pohlmann:

Per your request, Geotechnical & Environmental Services, Inc. (GES) obtained a surface water sample from the Las Vegas wash on July 27, 2000 near the Northshore Road Bridge. We sent this sample, under chain-of-custody protocol, to NEL Laboratories (NEL) for laboratory analysis of perchlorate. NEL's analysis revealed a perchlorate concentration of 650 micrograms per Liter (μ g/L). The NEL report is included with this letter, along with the Perchlorate Summary Table for 2000.

Our services were performed using that degree of care and skill ordinarily exercised under similar circumstances by reputable engineering firms in this or similar localities. No other warranty, either express or implied, is included or intended in this report. We appreciate this opportunity to provide our services. If you have any questions regarding these results, please feel free to call us at 365-1001.

Sincerely,

Geotechnical & Environmental Services, Inc.

Richard Cooke Staff Geologist Daniel C. Burns, C.E.M.* #1692 (Expires 10/07/2001) Project Manager

* "I hereby certify that I am responsible for the services described in this document and for the preparation of this document. The services described in this document have been provided in a manner consistent with the current standards of the profession and to the best of my knowledge comply with all applicable federal, state and local statutes, regulations and ordinances."

dir Enc:

2000 Perchlorate Summary Table

NEL Analytical Report

Lichard Cooke

Dist:

1 faxed to addressee at 486-2863

1 original mailed to addressee

cc: fax to Jeff Gibson, American Pacific Corporation

cc: mail to Kevin Mayer, USEPA SFD 72, 75 Hawthorne Street, San Francisco, CA 94105

cc: to project file 97664V3

7560 W. Sahara Ave., Suite 101 Las Vegas, NV 89117 (702) 365-1001 • Fax (702) 341-7120 www.gesnevada.com

Las Vegas Wash at Northshore Road Bridge 2000 Summary of Perchlorate Concentrations

Date Sampled	Perchlorate (μg/L)		
1/27/00	569		
2/28/00	720		
3/29/00	870		
4/27/00	750		
5/30/00	740		
6/28/00	410		
7 % /27/00	650		

NEL LABORATORIES

Reno • Las Vegas • Boise Phoenix • Sacramento Las Vegas Division 4208 Arcata Way, Suite A • Las Vegas, NV 89030 (702) 657-1010 • Fax: (702) 657-1577 1-888-368-3282

CLIENT:

Geotechnical & Env. Serv.

7560 West Sahara Ave. #101

Las Vegas, NV 89117

ATTN:

R. Cooke

PROJECT NAME:

FPF/97664 V3

PROJECT NUMBER: 97664 V3

NEL ORDER ID: 10007268

Attached are the analytical results for samples in support of the above referenced project.

Samples submitted for this project were not sampled by NEL Laboratories. Samples were received by NEL in good condition, under chain of custody on 7/27/00.

Should you have any questions or comments, please feel free to contact our Client Services department at (702) 657-1010.

Sun Van Wagenen Laboratory Manager

CERTIFICATIONS:

Reno Las Vegas S. California

Arizona AZ0520 AZ0518 AZ0605 California 1707 2002 2264

US Army Corps Certified Certified of Engineers

·

8/3/00 Date

 Idaho
 Reno
 Las Vegas
 S. California

 Idaho
 Certified
 Certified

 Montana
 Certified
 Certified

 Nevada
 NV033
 NV052
 CA084

 L.A.C.S.D.
 10228

NEL LABORATORIES

CLIENT:

Geotechnical & Env. Serv.

PROJECT ID: PROJECT #:

FPF/97664 V3

97664 V3

CLIENT ID:

North Shore Road Bridge

DATE SAMPLED: 7/27/00

NEL SAMPLE ID: 10007268-01

TEST:

Inorganic Non-Metals

MATRIX:

Aqueous

REPORTING

PARAMETER RESULT LIMIT <u>D. F.</u> **UNITS ANALYZED** 650 40. 10 **EPA 314** 8/1/00 Perchlorate $\mu g/L$

D.F. - Dilution Factor

ND - Not Detected

This report shall not be reproduced except in full, without the written approval of the laboratory.

NEL LABORATORIES

CLIENT:

Geotechnical & Env. Serv.

ND

PROJECT ID: PROJECT #:

97664 V3

FPF/97664 V3

CLIENT ID: DATE SAMPLED: NA

Method Blank

NEL SAMPLE ID: 000801CLO4-BLK

TEST:

Perchlorate

Non-Metals

REPORTING

RESULT **PARAMETER**

LIMIT

EPA 314

UNITS ANALYZED

 $\mu g/L$ 8/1/00

D.F. - Dilution Factor

ND - Not Detected

This report shall not be reproduced except in full, without the written approval of the laboratory.

Adjust Vegel NA 82117 Custody Seal intact? Y Requested Turnaround: Billing Address Phone Number 202 - 365-100 Palinguished by 100.7 (27/00 Worth Shore Road Bridge Les Vegas Division • 4208 Arcata Way, Ste. A • Las Vegas, NV 89030 Time/Date Sampled (702) 657-1010 • FAX: (702) 857-1577 • 1-888-368-3282 (Print) Condition when received Customer Sample Identification 5-day N (None) **NEL LABORATORIES** Kirland Couls Phoenix - So. California Reno · Las Vegas 702-341-7120 (Signature) 2-day good Temp i day Expected Due Date: o N.E.L. Identification 00/27/00 9 Other Date/Time Purchase Order Number: 1755 Project Name: # of Containers CHAIN OF CUSTODY 1219 Matrix (Box #1) T Preservative (Box #2) 11/1 Rencharge **Analysis** Received by Box #1 Floor DW - Drinlery Water WW - Waste Water OL - Olf/Dryanic Upuid Print AO - Aqueous NEL Work Order: (COO) Briston C Project Number: 9766403 Sampled By: (Signature) Box #2 1. Coole Remarks Date/Time E. Ios Only F. Other G. Not Preserved

The liability of NEL Laboratories inc. is lighted shireby to the price of sample analysis for those samples received in good condition. NEL is not responsible for loss, damage, resampling costs and/or qualified data related to samples not received in good condition, including adequate sample volume and number of conditions. Signature also constitutes acceptance of including adequate sample volume and number of conditions. Signature also constitutes acceptance of the conditions are conditions and conditions. Signature also constitutes are conditions and conditions are conditions are conditions and conditions are conditions are conditions. Signature also constitutes are manufactured for the first of the conditions are conditions are conditions. Signature also conditions are manufactured from the conditions are manufactured as a condition and the conditions are conditions. Signature and conditions are conditions are conditions are conditions are conditions. Signature are conditions are conditions are conditions are conditions are conditions are conditions. Signature and conditions are conditions are conditions are conditions are conditions. Signature and conditions are conditions are conditions are conditions are conditions are conditions. Signature and conditions are conditions are conditions are conditions. Signature and conditions are conditions are conditions. Signature are conditions are

90 PAGE MET THE NECHE

7026571577

13:48 0002/20/80

LETTER OF TRANSMITTAL

GEOTECHNICAL & ENVIRONMENTAL SERVICES, INC.

7560 West Sahara Avenue, Suite 101 Las Vegas, Nevada 89117 (702) 365-1001 (702) 341-7120 (FAX)

TO:	USEPA SFD 72		DAT	E:	August 4, 2000			
	75 Hawthorn St		PROJEC ⁻	T:				
	San Francisco Ca 94105				LV Wash			
ATTN:	Mr Kevin Mayer		GES PROJECT	#	97664 V3			
WE ARE FORWARDING THE ITEMS LISTED BELOW VIA:								
	MESSENGER	PICK UP	x U.S.	MAIL	"N	EXT DAY"		
COPIES	DESCRIPTION							
1	Results of monthly surface water sampling							
THESE	ITEMS ARE SENT FOR:	REVIEW	COMMENT	Γ	APPROVAL	USE		
		SIGN & RETU	JRN	OTHER:	-			
REMAR	KS:							
THIS M.	ATERIAL IS SENT BY:	Daniel C. Burns,	C.E.M.					
PLEASE SIGN AND RETURN ONE COPY OF TRANSMITTAL.								
RECEIV	ED BY:	TIME:		D/	ATE:			
OTHER	DISTRIBUTION:							

If enclosures are not as noted, please notify us at once.